MECHANICAL ABBREVIATIONS

DEW POINT TEMPERATURE ARCHITECT / ENGINEER DIFFUSER PLATE DP AIR TO AIR HEAT EXCHANGER DPA DIFFERENTIAL PRESSURE ASSEMBLY AIR BLENDER DPS DIFFERENTIAL PRESSURE SENSOR AAVAUTOMATIC AIR VENT DX DIRECT EXPANSION AIR COOLED CONDENSER DXCC DIRECT EXPANSION COOLING COIL ACCH AIR COOLED CHILLER AIR-COOLED CONDENSING UNIT EA EXHAUST AIR ACU AIR CONDITIONING UNIT EAT ENTERING AIR TEMPERATURE AUTOMATIC CONTROL EC EVAPORATIVE COOLER DAMPER, MODULATING ECC ENGINEERING CONTROL CENTER ACD-TP AUTOMATIC CONTROL ECU EVAPORATIVE CONDENSER UNIT DAMPER,TWO POSITION EDH ELECTRIC DUCT HEATER ACCESS DOOR EER ENERGY EFFICIENCY RATIO AFTER FILTER EF EXHAUST FAN AIR FLOW CONTROL VALVE EG EXHAUST GRILLE ABOVE FINISHED FLOOR EGS EMERGENCY GAS SHUTOFF AIR FLOW MEASURING DEVICE EGT ENTERING GLYCOL TEMPERATURE AIR FOIL WHEEL (FAN) EH EXHAUST HOOD AIR-HANDLING UNIT EJ EXPANSION JOINT AMPERGE AMP EMD END OF MAIN DRIP (STEAM) ACCESS PANEL ENT ENTERING AIR PRESSURE DROP ER EXHAUST REGISTER AIR CONDITIONING AND ERC ELECTRIC REHEAT COIL REFRIGERATION INSTITUTE ERP ELECTRIC RADIANT PANEL AIR SEPARATOR ESP EXTERNAL STATIC PRESSURE AMERICAN SOCIETY OF MECHANICAL ENGINEERS ET EXPANSION TANK ΑW AIR WASHER ETO ETHYLENE OXIDE AXF AXIAL FLOW EUH ELECTRIC UNIT HEATER EWC EVAPORATIVE WATER COOLER EWT ENTERING WATER TEMPERATURE BOILER BUTTERFLY DAMPER EX. EXISTING BACKDRAFT DAMPER BASE BOARD RADIATOR FAHRENHEIT BACKFLOW PREVENTER F&T FLOAT AND THERMOSTATIC BOILER PLANT FIRE TUBE F/SDPR COMBINATION FIRE SMOKE BOTTOM GRILLE DAMPER BRAKE HORSEPOWER FREE AREA HOT WATER HEATING BOILER FLEXIBLE CONNECTION BOILER BLOWDOWN HEAT EXCHANGER FCU FAN COIL UNIT (4 PIPE) BACKWARD INCLINED WHEEL (FAN) FCUC FAN COIL UNIT COOLING ONLY BONE MARROW TRANSPLANT FAN COIL UNIT HEATING ONLY BOTTOM REGISTER FORWARD CURVED WHEEL (FAN) BSC BIOLOGICAL SAFETY CABINETS FD FLOOR DRAIN BLOWOFF TANK FIRE DAMPER BLOWOFF TANK CONTROL VALVE FINAL FILTER BRITISH THERMAL UNIT FLUE GAS/FEEDWATER HEAT BTUH BRITISH THERMAL UNIT PER HOUR EXCHANGER BWT BOILER PLANT WATER TUBE FLOW METER FOP FUEL OIL PUMP FOT FUEL OIL TANK
FOHX FUEL OIL HEAT EXCHANGER CENTIGRADE (CELCIUS) COOLING COIL FOV FUEL OIL VENT COOLING COIL CONDENSATE FPM FEET PER MINUTE
FPS FEET PER SECOND DRAIN CEILING DIFFUSER FAN POWERED TERMINAL UNIT CD-1 CONSTRUCTION DOCUMENTS FLOOR REGISTER FR (SUBMISSION1) FRP FIBER REINFORCED POLYESTER FS FLOW SWITCH FSTAT FREEZESTAT CD-2 CONSTRUCTION DOCUMENTS FT FEET (SUBMISSION2) FT-LB FOOT-POUND CENT CENTRIFICAL FTR FIN TUBE RADIATION CFH CUBIC FEET PER HOUR FV FACE VELOCITY CUBIC FEET PER MINUTE CUBIC FEET GA GAUGE CFP CHEMICAL FEED PUMP GAL GALLONS CEILING GRILLE GH GRAVITY HOOD СН CHILLER GPD GALLONS PER DAY CHILLED WATER PUMP GPH GALLONS PER HOUR CHILLER WATER GPM GALLONS PER MINUTE CHILLED WATER RETURN GPR GAS PRESSURE REGULATOR CHS CHILLED WATER SUPPLY GS GALVANIZED STEEL CAST IRON CARBON MONOXIDE HUMIDIFER CUBIC METER H&CW HOT & COLD WATER CM/S CUBIC METER PER SECOND HAC HOUSEKEEPING AID CLOSET CLEAN OUT HOSE BIBB CARBON DIOXODE HEATING COIL COMP COMPRESSOR UNIT HEAD COEFFICIENT OF PERFORMANCE HDHOOD CONDENSATE PUMP HAND/OFF/AUTOMATIC CEILING REGISTER HP HEAT PUMP CONDENSATE STORAGE TANK HORSEPOWER CSG CLEAN STEAM GENERATOR HPDT HIGH PRESSURE DRIP TRAP CT COOLING TOWER HPR HIGH PRESSURE RETURN CONDENSING UNIT (STEAM CONDENSATE) CABINET UNIT HEATER HPS HIGH PRESSURE SUPPLY CONSTANT VOLUME (STEAM) COLD WATER (POTABLE) HRC HEAT RECOVERY COIL CWCC CHILLED WATER COOLING COIL HRD HEAT RECOVERY DEVICE CONDENSER WATER PUMP HYDRONIC RADIANT (CEILING) CONDENSER WATER RETURN (TO PANEL COOLING TOWER) HRW HEAT RECOVERY WHEEL CWS CONDENSER WATER SUPPLY HSTAT HUMIDISTAT (FROM COOLING TOWER) HTM HUMIDIFIER TERMINAL HUM HUMIDIFIER UNIT MOUNTED DAMPER - AUTOMATIC HVU HEATING AND VENTILATING UNIT OUTDOOR AIR DAMPER HW HOT WATER D-2 RETURN AIR DAMPER HWC HOT WATER COIL D-3 RELIEF AIR DAMPER HWHC HOT WATER HEATING COIL DECIBELS HWP HEATING HOT WATER PUMP DRY-BULB TEMPERATURE HWR HEATING HOT WATER RETURN DD-1 DESIGN DEVELOPMENT HWS HEATING HOT WATER SUPPLY (SUBMISSION1) HWUH HOT WATER UNIT HEATER DD-2 DESIGN DEVELOPMENT HVD HOISTWAY VENT DAMPER (SUBMISSION2) HEAT EXCHANGER HX DDC DIRECT DIGITAL CONTROLS DEGREE DIFFUSER

2

3

DIAMETER

REVISION 1
Revisions:

DEIONIZED WATER

I/O INPUT/OUTPUT IAQ INDOOR AIR QUALITY INVERTED BUCKET TRAP ICF IN-LINE CENTRIFUGAL FAN INTENSIVE CARE UNIT INSIDE DIAMETER IFB INTEGRAL FACE AND BYPASS IN INCHES IN HG INCHES OF MERCURY IN WC INCH WATER COLUMN IN WG INCH WATER GAUGE IN-LB INCH-POUND IPLV INTERGRATED PART LOAD VALUE IRH INTRARED HEATER INSECT SCREEN INDUCTION UNIT IV INLET VANES J INTENTIALLY LEFT BLANK KILOGRAM kg/HR KILOGRAM PER HOUR KILOPASCAL KILOWATT KILOWATT HOUR LITER LITERS PER HOUR (OR LITERS/HOUR) LITERS PER MINUTE (OR LITERS/MINUTE) LITERS PER SECOND (OR LITERS/SECOND) LEAVING AIR TEMPERATURE LBS/HR POUNDS PER HOUR LINEAR FOOT (FEET) LEAVING GLYCOL TEMPERATURE LATENT HEAT LIQUID PROPANE GAS LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM RETURN (CLEAN) LIQUID TO LIQUID HEAT EXCHANGER LOW PRESSURE STEAM LOW PRESSURE STEAM (CLEAN) LINEAR SLOT DIFFUSER LTCP LOCAL TEMPERATURE CONTROL PANEL LEAVING LVG LVR LOUVER LEAVING WATER TEMPERATURE

M METER, SI UNIT M/s METERS PER SECOND (OR METERS/SECOND) MIXED AIR MAT MIXED AIR TEMPERATURE MAU MAKE-UP AIR UNIT MAV MANUAL AIR VENT MAX MAXIMUM MB MIXING BOX MBH 1000 BTUH MCA MINIMUM BRANCH CIRCUIT AMPACITY MER MECHANICAL EQUIPMENT ROOM MERV MINIMUM EFFICIENCY REPORTING VALUE MH MANHOLE MHP MOTOR HORSEPOWER MIN MINIMUM MM MILLIMETER MOV MOTOR OPERATED VALVE MPR MEDIUM PRESSURE RETURN (STEAM CONDENSATE) MPS MEDIUM PRESSURE STEAM MRI MAGNETIC RESONANCE IMAGING MTD MEAN TEMPERATURE DIFFERENCE MVD MANUAL VOLUME DAMPER MULTI-ZONE NOT APPLICABLE NOISE CRITERIA NC NORMALLY CLOSED NG NATURAL GAS NGFM NATURAL GAS FLOWMETER NO NORMALLY OPEN NOAA NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION NOM NOMINAL NPLV NON-STANDARD PART LOAD VALUE NPSH NET POSITIVE SUCTION HEAD NTS NOT TO SCALE OA OUTSIDE AIR OAG OUTSIDE AIR GRILLE OAI OUTSIDE AIR INTAKE OD OUTSIDE DIAMETER OFM OIL FLOWMETER OR OPERATING ROOM

4

PUMP PA PASCAL PUMPED CONDENSATE PCF POUNDS PER CUBIC FOOT (FEET) PD PRESSURE DROP PROPELLER (TYPE) EXHAUST FAN PRE-FILTER PRESSURE GAGE PGW PROPYLENE GLYCOL-WATER (SOLUTION) PHC PREHEAT COIL PPM PARTS PER MILLION PRS PRESSURE REGULATING (VALVE) STATION PRESSURE REGULATING VALVE POUNDS PER SQUARE INCH PSIA POUNDS PER SQUARE INCH - ABSOLUTE PSIG POUNDS PER SQUARE INCH - GAGE PSS PRIMARY SECONDARY SYSTEM PSV PRESSURE SAFETY VALVE PTAC PACKAGED TERMINAL AIR CONDITIONER R/E RETURN OR EXHAUST RA RETURN AIR RAD REFRIGERANT AIR DRYER RAF RADIO FREQUENCY RAHX ROTARY AIR HEAT EXCHANGER RAT RETURN AIR TEMPERATURE RCCH REMOTE CONDENSER CHILLER RCU RECIPROCATING CHILLER UNIT RD REFRIGERANT DISCHARGE RDS ROOM DATA SHEETS REA RELIEF AIR RETURN FAN RETURN GRILLE RELATIVE HUMIDITY RHC REHEAT COIL REFRIGERANT HOT GAS REFRIGERANT LIQUID LINE RLA RUN LOAD AMPERE REVERSE OSMOSIS RPM REVOLUTIONS PER MINUTE RETURN REGISTER REFRIGERANT SUCTION

RTU ROOF TOP UNIT

RV RELIEF VALVE

UC UNDER CUT

UC UNIT COOLER

UH UNIT HEATER

VAF VANE—AXIAL FAN

VAV VARIABLE AIR VOLUME

VI VIBRATION ISOLATOR

VP VACUUM PUMP

WC WATER COOLED

WF WATER FILTER

WG WATER GAGE

YR YEAR

WFM WATER FLOWMETER

W WATTS

VIV VARIABLE INLET VANES

VSD VARIABLE SPEED DRIVE

VUH VERTICAL UNIT HEATER

Wb WET-BULB (TEMPERATURE)

WCCU WATER COOLED CONDENSING UNIT

WCHP WATER COOLED HEAT PUMPS

WFCV WATER FLOW CONTROL VALVE

WFMD WATER FLOW MEASURING DEVICE

WPD WATER SIDE PRESSURE DROP

WCPU WATER COOLED PACKAGED UNIT

WCCH WATER COOLED CHILLER

WEF WALL EXHAUST FAN

VPS VARIABLE PRIMARY SYSTEM

VFD VARIABLE FREQUENCY DRIVE

VHA VETERANS HEALTH ADMINISTRATION

VR VACUUM (STEAM CONDENSATE) RETURN

VD VOLUME DAMPER (MANUAL OPPOSED BLADE)

V VALVE

UL UNDERWRITERS LABORATORY

URV UPBLAST UNIT VENTILATOR

SUPPLY AIR SOUND ATTENUATING DEVICE SUPPLY AIR TEMPERATURE SHADING COEFFICIENT SCFM STANDARD CUBIC FEET PER MINUTE SCI SPINAL CODE INJURY SILICON CONTROLLED RECTIFIER SMOKE DETECTOR SUPPLY AIR DIFFUSER SD-1 SCHEMATIC DESIGN (SUBMISSION1) SD-2 SCHEMATIC DESIGN (SUBMISSION2) SDPR SMOKE DAMPER SDR SMOKE DAMPER (RETURN) SDS SMOKE DAMPER (SUPPLY) SENSIBLE HEAT SUPPLY FAN SUPPLY AIR GRILLE STEAM HUMIDIFIER SHC STEAM HEATING COIL SQUARE INCHES STATIC PRESSURE SP GR SPECIFIC GRAVITY SPD SUPPLY PROCESS AND DISTRIBUTION SPRV STEAM PRESSURE REDUCING VALVE SPS STATIC PRESSURE SENSOR SQ FT SQUARE FOOT (FEET) SUPPLY AIR REGISTER STAINLESS STEEL SSHX STEAM TO STEAM HEAT EXCHANGER SOLID SEPARATOR ST STEAM TRAP SUH STEAM UNIT HEATER STEAM PRESSURE REDUCING VALVE SVS STEAM VENT SILENCER SWHX STEAM TO WATER HEAT EXCHANGER T & PCV TEMPERATURE AND PRESSURE CONTROL VALVE TESTING, ADJUSTING, BALANCE TEMPERATURE DIFFERENCE TDH TOTAL DYNAMIC HEAD TOTAL DISSOLVED SOLIDS TRANSFER GRILLE TOP REGISTER TOTAL STATIC PRESSURE TSTAT THERMOSTAT

TERMINAL UNIT

5

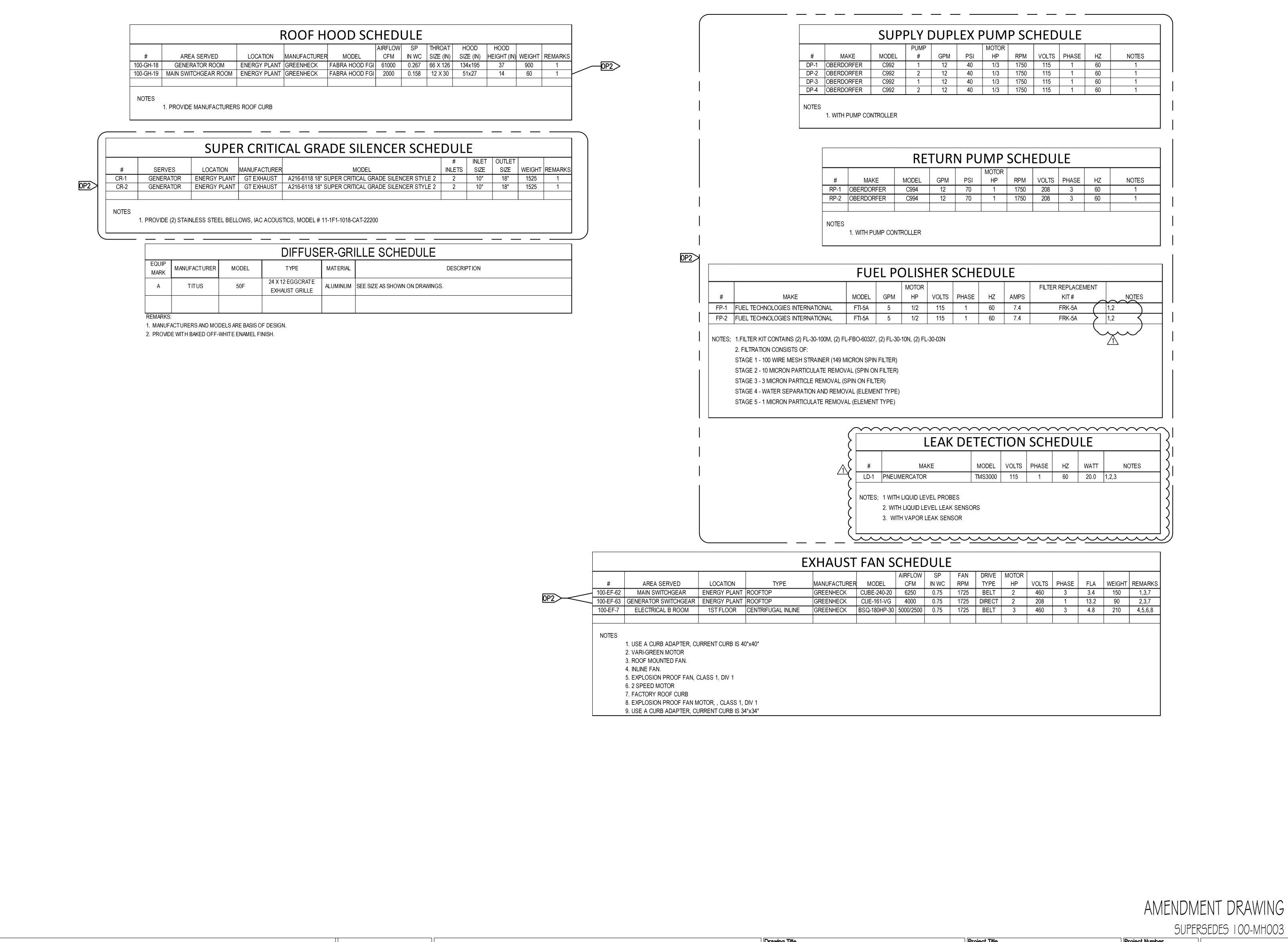
THRU-WALL UNIT

GENERAL NOTES

- 1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE HARD SUSPENDED CEILING.
- 2. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
- 3. ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
- 4. TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
- 5. FOR TYPICAL STEAM AND WATER PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD EQUIPMENT DETAILS.
- 6. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
- 7. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
- 8. WALL TYPE EXHAUST REGISTERS NOTED AS "BR" ON DRAWINGS ARE TO BE INSTALLED WITH BOTTOM ELEVATION OF REGISTER AT 7" [175mm] ABOVE FINISHED FLOOR.
- 9. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.
- 10. SEISMIC PROVISIONS REQUIRED SEE SPECS
- ALL PRESSURES LISTED ARE GAGE PRESSURE UNLESS OTHERWISE NOTED

AMENDMENT DRAWING

						Sl	JPERSEDES 100-MH001
	CONSULTANTS:			Project Title VA PUGET SOUND H	HEALTH CARE S'	Project Number 663-15-102	Office of
-		SÄZÄN		UPGRADE SEATTLI DISTRIBUTION FROM		Building Number 100	Construction and Facilities
		600 Stewart St., Ste 1400 Seattle, Washington 98101	Protect Prot	Location 1660 South Columbian	Way, Seattle, WA 98	Drawing Number	Management
- 04-01-16 Date		Tel 206.267.1700 Fax 206.267.1701 SAZAN # 269-1507	VAPAHCS PLANNING AND ENGINEERING		Checked Drawn S.SCHORN C.PE		Department of Veterans Affairs



AMENDMENT DRAWING

7

Office of

Construction

and Facilities

Management

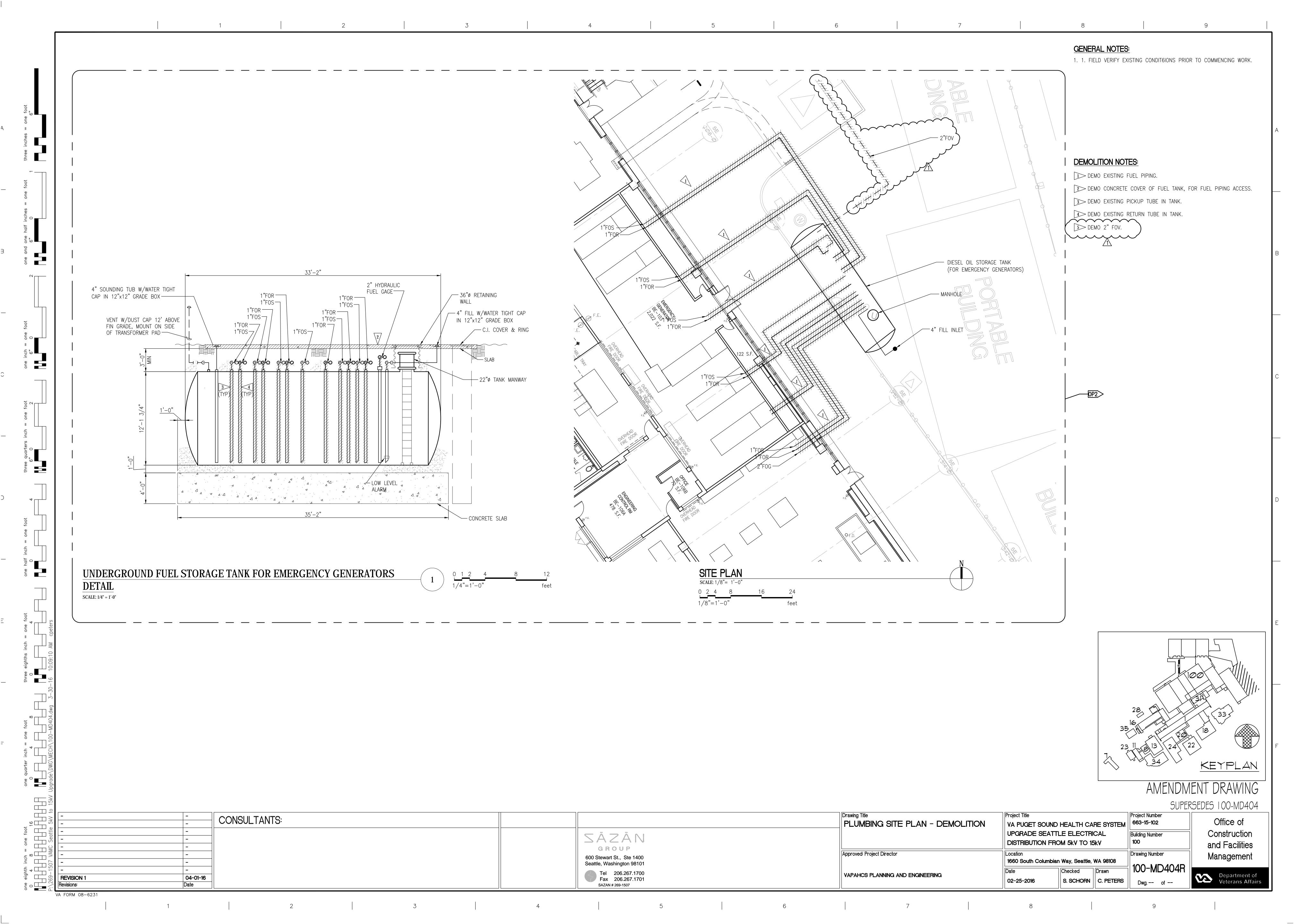
Department of Veterans Affairs

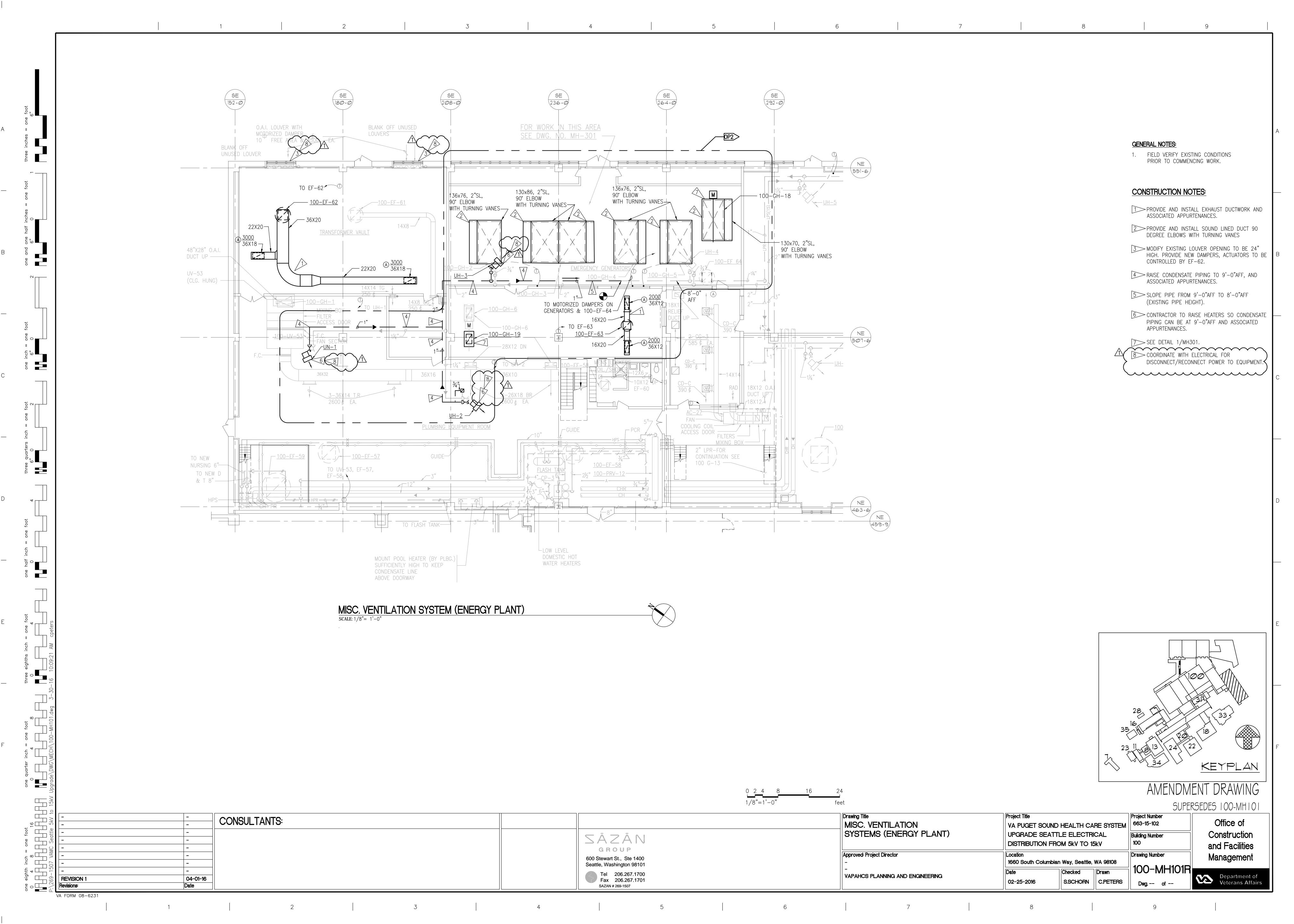
Project Title Project Number Drawing Title CONSULTANTS: MECHANICAL SCHEDULES 663-15-102 VA PUGET SOUND HEALTH CARE SYSTEM UPGRADE SEATTLE ELECTRICAL Building Number SÄZÄN DISTRIBUTION FROM 5kV TO 15kV 100 GROUP Approved: Project Director Drawing Number 600 Stewart St., Ste 1400 1660 South Columbian Way, Seattle, WA 98108 Seattle, Washington 98101 100-MH003R Checked Drawn Tel 206.267.1700 Fax 206.267.1701 VAPAHCS PLANNING AND ENGINEERING 04-01-16 **REVISION 1** S.SCHORN C.PETERS 02-25-2016 Dwg. -- of --Revisions: Date SAZAN # 269-1507 VA FORM 08-623

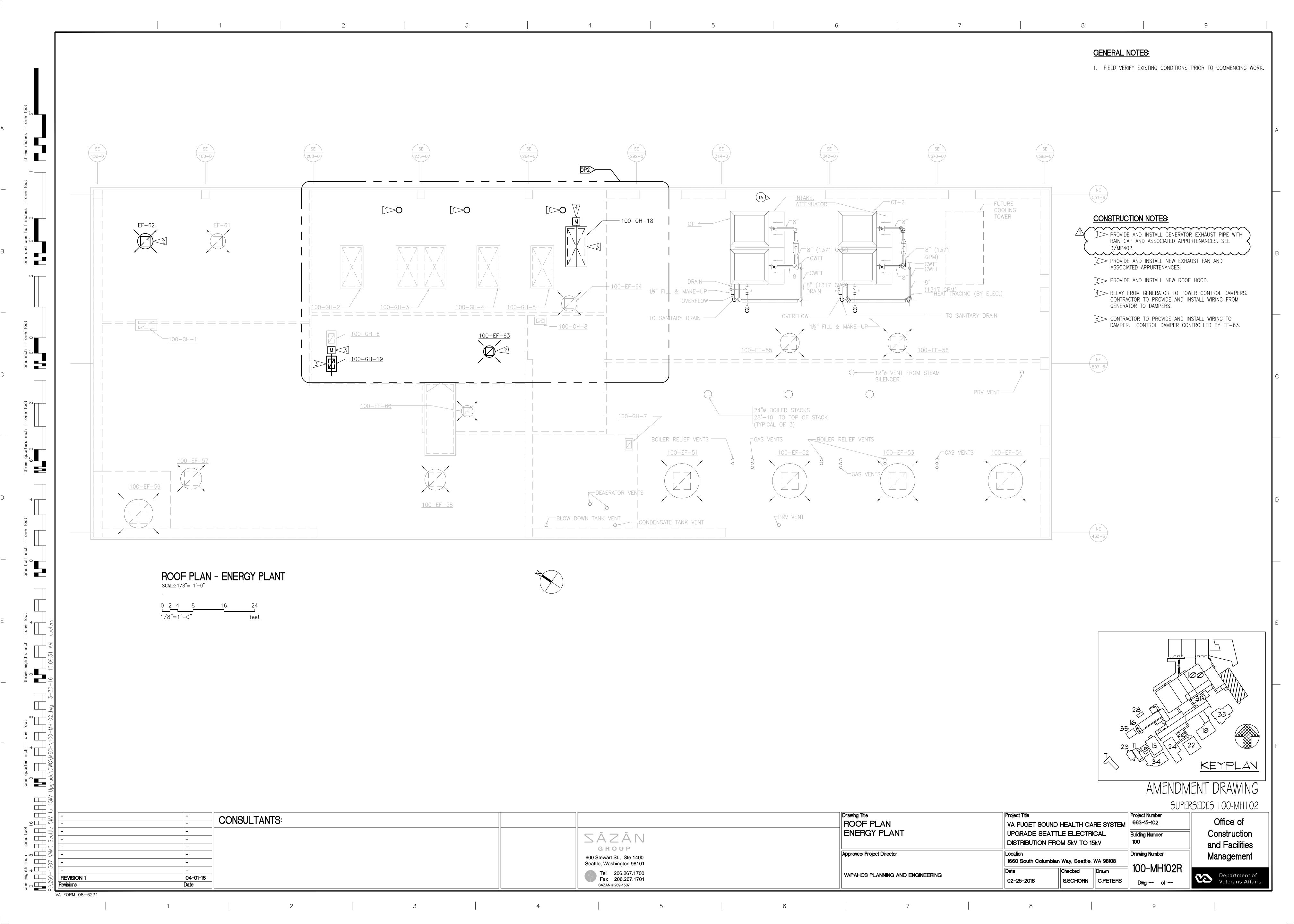
5

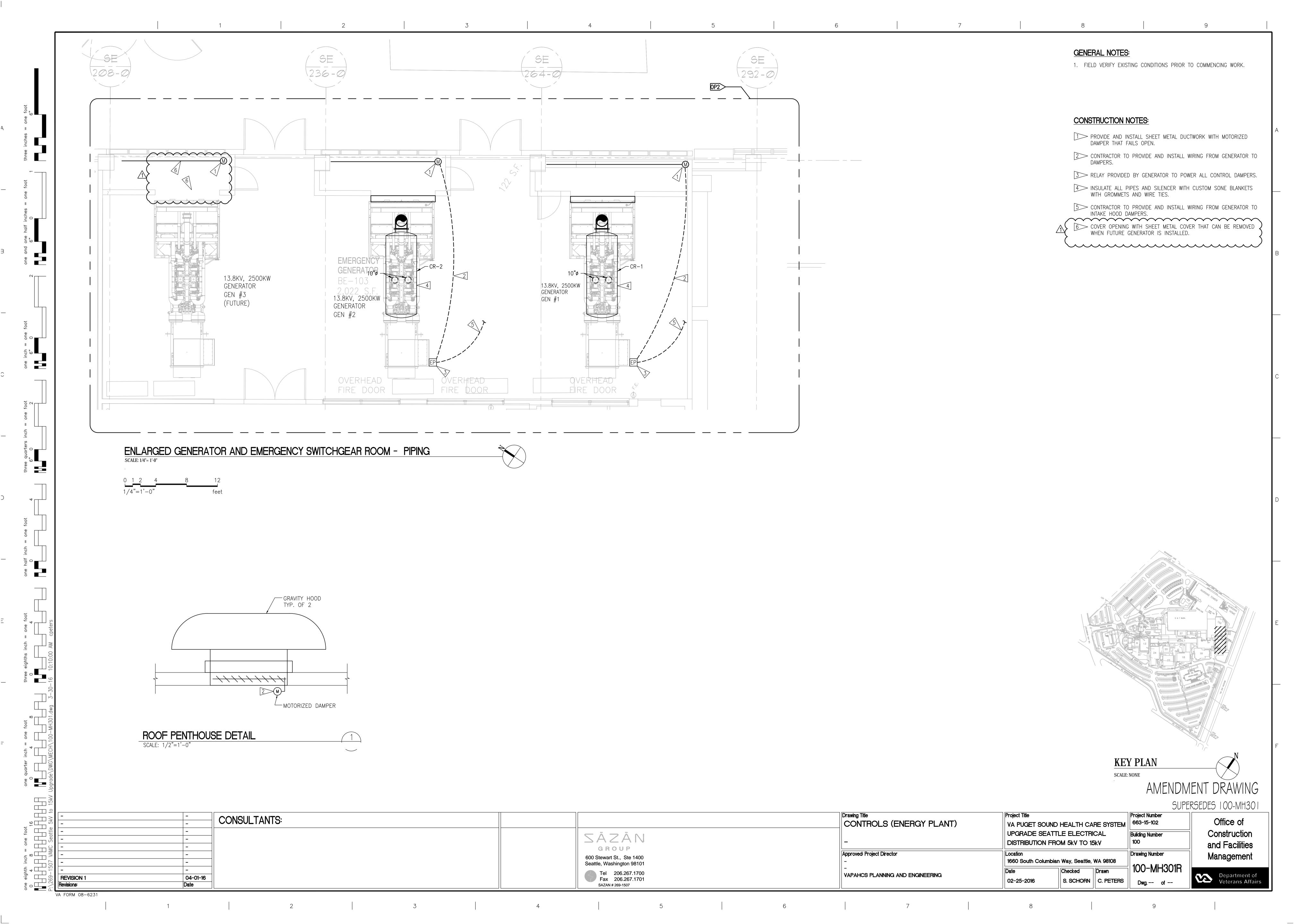
3 4

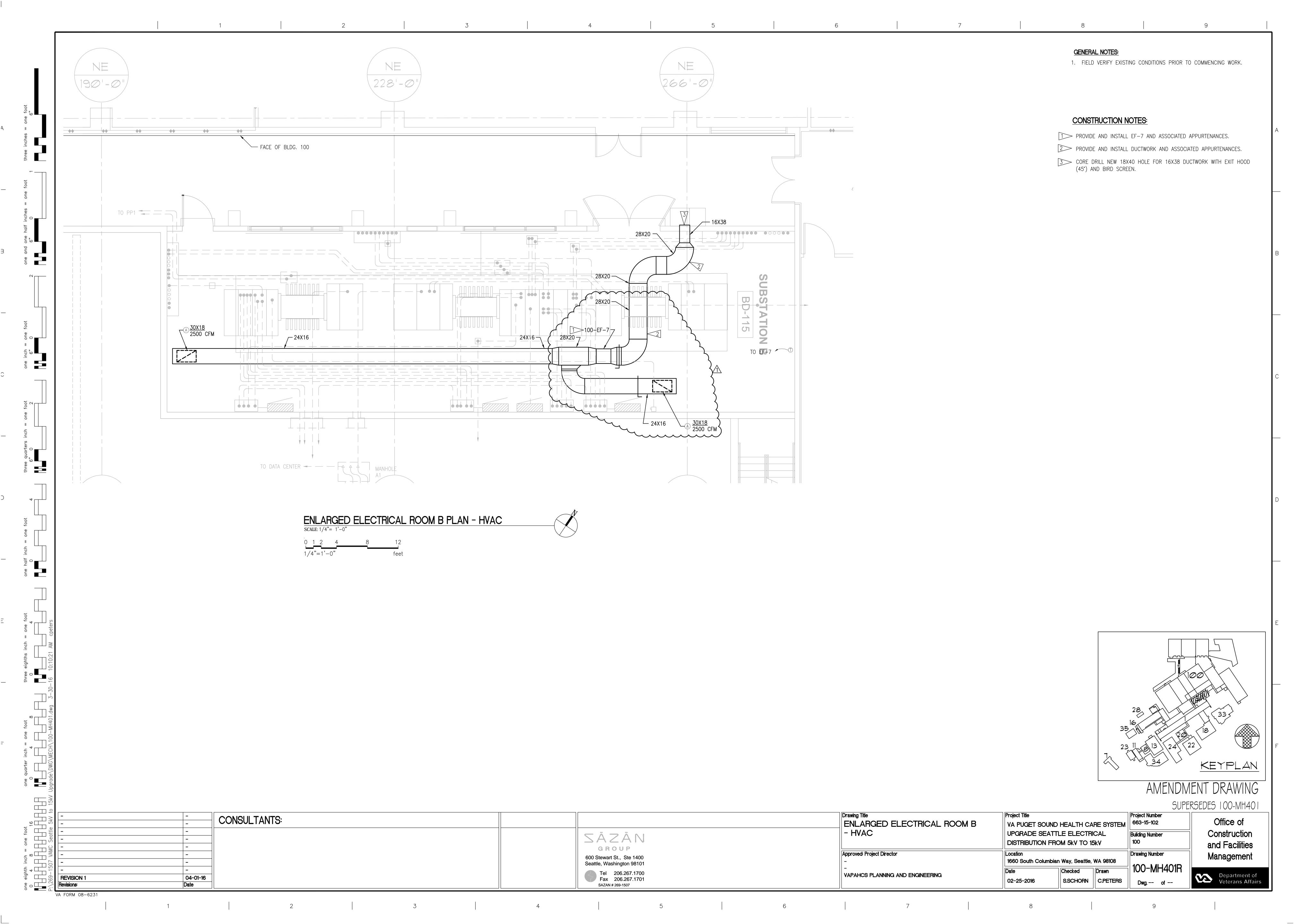
2

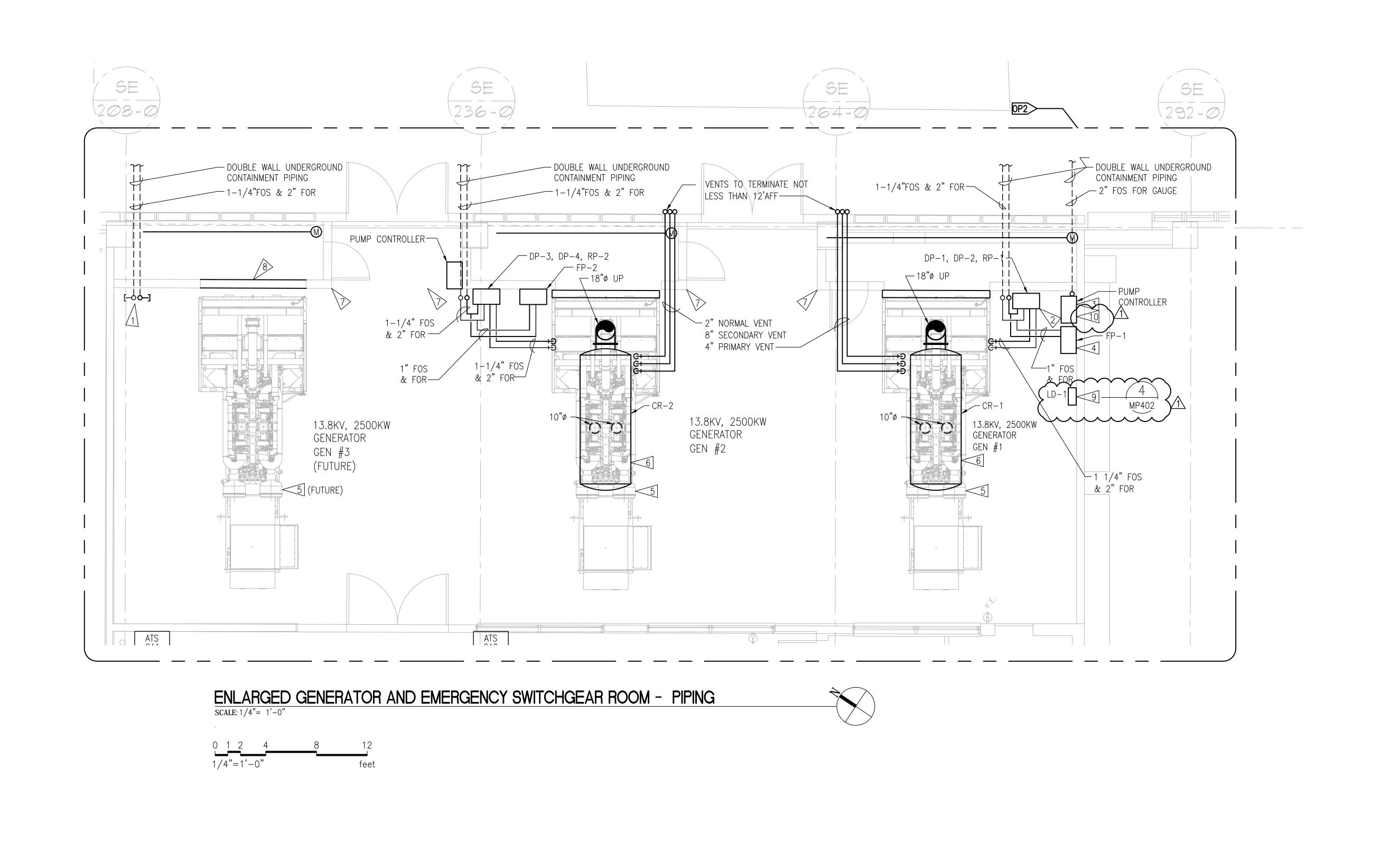












2 3 4

VA FORM 08-623

GENERAL NOTES:

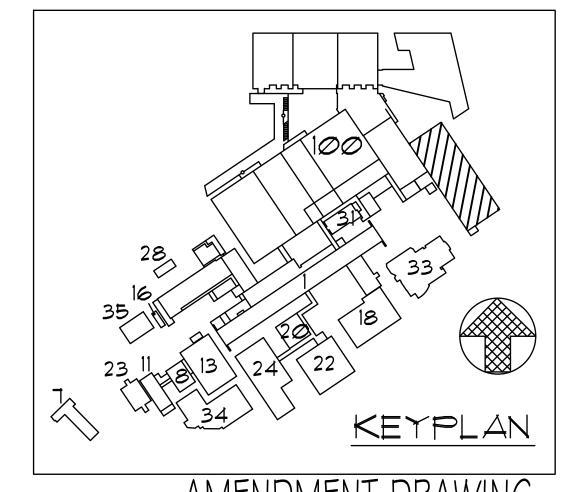
1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

CONSTRUCTION NOTES:

- CAP AT FLOOR NEW 1 1/4" FOS AND 2" FOR PIPES.
- PROVIDE AND INSTALL DUPLEX SUPPLY PUMP, RETURN PUMP, PIPING AND ASSOCIATED APPURTENANCES. MOUNT ON FLOOR.
- 3 PROVIDE AND INSTALL PUMP CONTROLLER.
- PROVIDE AND INSTALL FUEL POLISHER, PIPING, AND ASSOCIATED APPURTENANCES.
- 5 PROVIDE GENERATOR WITH 200 GALLON BELLY TANK (SEE ELECTRICAL).
- PROVIDE AND INSTALL GENERATOR EXHAUST PIPING, MUFFLER AND ASSOCIATED APPURTENANCES. MUFFLER IS GT EXHAUST MODEL A216-6118 18" SUPER CRITICAL GRADE SILENCER STYLE 2.
- PROVIDE AND INSTALL SHEET METAL ENCLOSURE RATED FOR 10" WG CONSTRUCTION, INCLUDING DOORS. WITH R-19 BATT INSULATION BETWEEN STUDS, AND 2" PEMACOTE LINACOUSTIC R-300 (JOHNS MANSVILLE) LINING OF EAFIVE PLENUM
- 8 CAP FUTURE GENERATOR OPENING WITH SHEET METAL AND FILL WITH R-19 INSULATION.

- PROVIDE LEAK DETECTOR AND WIRE SENSORS TO LOCATIONS SHOWN ON 4/MP402 AND ASSOCIATED APPURTENANCES.
- 10> REINSTALL FUEL GAUGE.

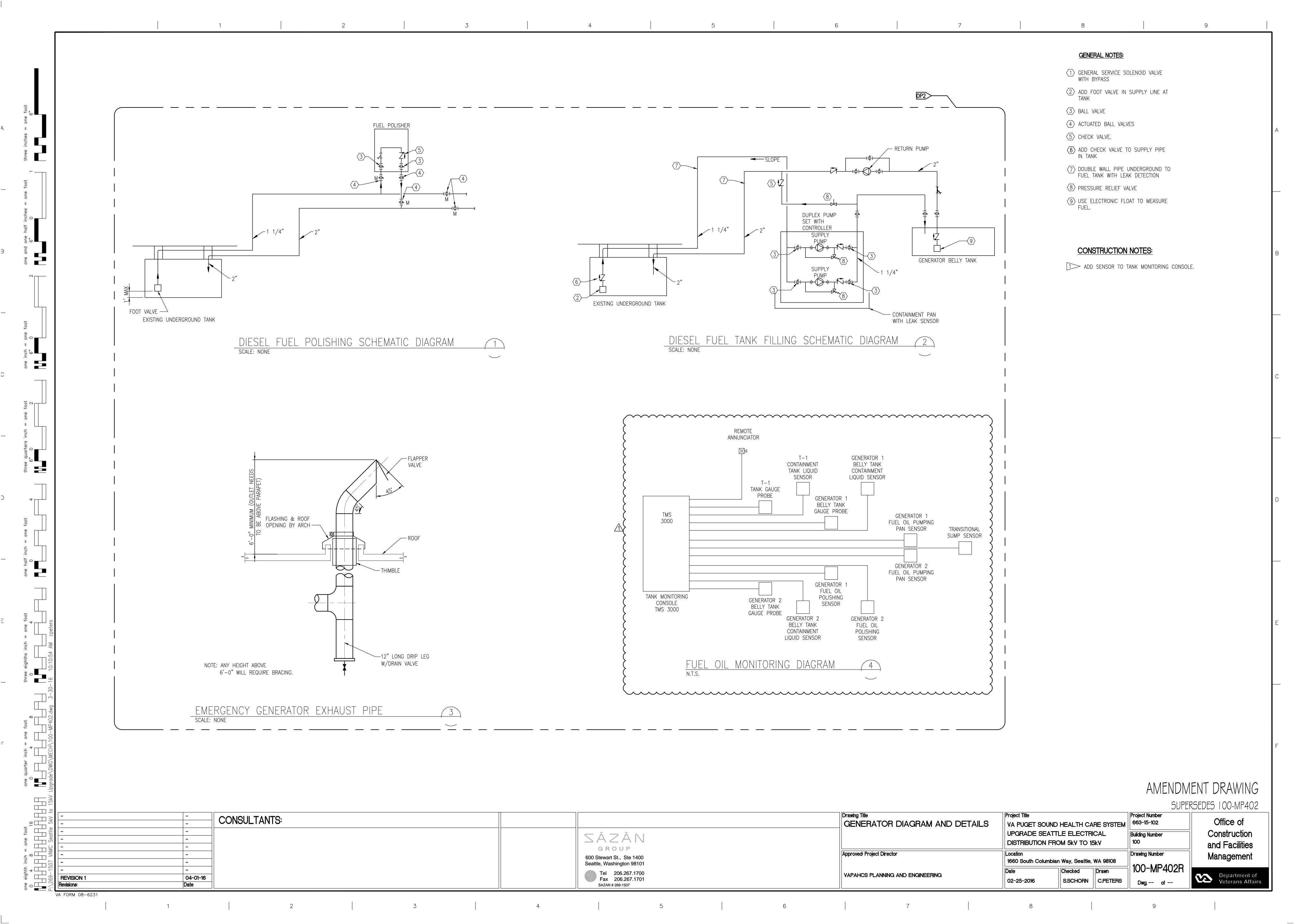
7



AMENDMENT DRAWING
SUPERSEDES 100-MP401

Project Title Drawing Title Project Number CONSULTANTS: Office of GENERATOR PLANT 663-15-102 VA PUGET SOUND HEALTH CARE SYSTEM PLAN - PIPING Construction UPGRADE SEATTLE ELECTRICAL **Building Number** SÄZÄN DISTRIBUTION FROM 5kV TO 15kV 100 and Facilities GROUP Approved: Project Director Drawing Number Management 600 Stewart St., Ste 1400 1660 South Columbian Way, Seattle, WA 98108 Seattle, Washington 98101 100-MP401R Checked Drawn Tel 206.267.1700 Fax 206.267.1701 Department of Veterans Affairs VAPAHCS PLANNING AND ENGINEERING 04-01-16 REVISION 1 02-25-2016 S.SCHORN C.PETERS Dwg. -- of --Revisions: Date SAZAN # 269-1507

5



FUEL PUMP CONTROLLER SEQUENCE OF OPERATIONS TANK LEVEL CONTROLLER FILL SEQUENCE FUEL POLISHER WHEN LEVEL FALLS BELOW NORMAL OPERATING BAND, THE LEVEL CONTROLLER WILL OPEN THE SEQUENCE OF OPERATIONS NORMALLY OPEN FILL CONTROL SOLENOID VALVE, START PUMP 1 AND MONITOR THE FLOW SWITCH FOR PROOF OF FLOW. IF FLOW IS NOT DETECTED FOR 15 SECONDS, THE PUMP WILL BE FAILED THE SYSTEM USES A 2 STAGE PROCESS, FILTERING AND WATER REMOVAL AND PUMP 2 WILL BE STARTED. IF FLOW IS NOT DETECTED FOR 15 SECONDS AFTER PUMP 2 IS PROCESS ON BOTH TANKS. IT HAS A 7 DAY PROGRAMMABLE TIME CLOCK. STARTED, THE PUMP WILL BE FAILED AND THE SYSTEM WILL BE "DOWN" UNTIL RESET. ONCE THE FUEL POLISHER PUMPS FUEL FROM THE TANK THROUGH THE FILTER AND FLOW IS PROVEN, THE OPERATING PUMP WILL CONTINUE TO RUN UNTIL FUEL LEVEL RISES ABOVE THEN BACK TO THE TANK. THE FILTER CLEANS THE FUEL AND THE SEPARATES 90% AT WHICH TIME, THE PUMP WILL BE STOPPED. THE SYSTEM WILL THEN WAIT UNTIL LEVEL FALLS BELOW THE NORMAL OPERATING BAND AND REPEAT THE ABOVE SEQUENCE, ALTERNATING THE WATER FROM THE FUEL. PUMPS ON EACH FILL CYCLE TO EQUALIZE RUN TIMES. THE SYSTEM INCLUDES A VACUUM SENSOR, LEAK DETECTOR SENSOR, MOTOR RETURN PUMP OVERLOAD AND A FILTER WATER SENSOR WHICH WILL AUTOMATICALLY TURN IF FUEL LEVEL RISES ABOVE 95% (CRITICAL HIGH) THE RETURN PUMP WILL START AND RUN UNTIL SYSTEM OFF, AND SOUND AN AUDIBLE ALARM. A BRIEF DESCRIPTION WILL FUEL LEVEL FALLS BELOW 90% (TANK FULL) LEVEL. APPEAR ON THE SCREEN. THE ALARM DESCRIPTION WILL TELL MAINTENANCE FLOAT SEQUENCE ERROR; WHAT NEEDS SERVICE IF THE LEVEL FLOAT SWITCH REPORTS CONFLICTING FUEL LEVELS (E.G. SEES LEVEL BELOW THE A DRY CONTACT FOR GENERAL ALARM NOTIFICATION IS PROVIDED AND SHOULD LOW LEVEL SET POINT AND ABOVE 95% AT THE SAME TIME) THE LEVEL CONTROLLER WILL BE BE WIRED TO THE MONITORING SYSTEM. FAILED AND AUTOMATIC FILL AND RETURN OPERATION WILL BE DISABLED. ACTIVATES ALARM TO BMS UNTIL ALARM ACKNOWLEDGED. OTHER ALARM CONDITIONS; BELLY TANK LEAK; AUTOMATIC FILL OPERATION DISABLED. ACTIVATE GENERAL ALARM TO BMS UNTIL THE 7 DAY PROGRAMMABLE HAS THREE SETTINGS FOR THE TANK, ALARM ACKNOWLEDGED (B4 1), (B4 2), AND (B4 3). THE FOLLOWING ARE RECOMMENDED SETTINGS: BELLY TANK LOW LEVEL; SYSTEM WILL RN BOTH SUPPLY PUMPS UNTIL LEVEL RISES ABOVE TANK FULL LEVEL. ACTIVATE GENERAL ALARM TO BMS UNTIL ALARM ACKNOWLEDGED UNDERGROUND TANK BELLY TANK LEVEL HIGH; OPERATE RETURN PUMP PER RETURN PUMP OPERATION DESCRIBED ABOVE. ACTIVATE GENERAL ALARM TO BMS UNTIL ALARM ACKNOWLEDGED SET (B4-1) TO RUN EVERY SUNDAY FROM 1:00 AM TO 10:00 PM SUPPLY PUMP 1 OR SUPPLY PUMP 2 FAILURE; TRIGGER GENERAL ALARM TO BMS UNTIL (ADJUSTABLE) ACKNOWLEDGED. SET (B4-2) TO RUN ONCE A MONTH MONDAY FROM 1:00 AM TO TUESDAY 12:00 PM (ADJUSTABLE) SET (B4-3) TO RUN ONCE A MONTH THURSDAY FROM 1:00 AM PM TO 12:00 PM (ADJUSTABLE) FUEL POLISHER SEQUENCE OF OPERATION FUEL PUMP SEQUENCE OF OPERATION (2) SCALE: NONE EMERGENCY GENERATOR DAMPER SEQUENCE OF OPERATIONS: ALL DAMPERS FAIL OPEN. GENERATOR CONTROLS ALL DAMPERS. NORMAL OPERATION: 1. WHEN GENERATOR (EITHER 1 OR 2 OR BOTH) STARTS, AIR INLET DAMPERS OPEN AND AIR OUTLET DAMPERS OPEN. DAMPERS STAY OPEN WHEN GENERATOR (EITHER 1 OR 2, OR BOTH) IS RUNNING. 2. WHEN ALL GENERATORS HAVE STOPPED, AIR INLET DAMPERS AND AIR OUTLET DAMPERS STAY OPEN UNTIL TEMPERATURE DROPS BELOW 70F. 3. WHEN TEMPERATURE DROPS BELOW 70F AND BOTH GENERATORS ARE OFF, AIR INLET DAMPERS AND AIR OUTLET AIR DAMPERS CLOSE. EMERGENCY GENERATOR DAMPER SEQUENCE OF OPERATIONS: 3 SCALE: NONE

AMENDMENT DRAWING

.0 15kV							SUPE	ERSEDES 100-MP403
] Š		CONSULTANTS:		Drawing Title	Project Title		Project Number	Office of
		OCHOOLI AITTO		GENERATOR SEQUENCES	VA PUGET SOUND HEALTH CARE SYSTEM			
oeatt			SÄZÄN		UPGRADE SEATTLE E		Building Number	Construction
」♡ ¬ ♀	- -		GROUP		DISTRIBUTION FROM 5kV TO 15kV		100	and Facilities
			600 Stewart St., Ste 1400	Approved: Project Director	Location		Drawing Number	Management
507			Seattle, Washington 98101		1660 South Columbian Way, Seattle, WA 98108		= 100-MP403R	
] -6	REVISION 1 04-01-16		Tel 206.267.1700 Fax 206.267.1701	VAPAHCS PLANNING AND ENGINEERING		ked Drawn		Department of Veterans Affairs
	REVISION 1 04-01-16 Revisions: Date		Fax 206.267.1701 SAZAN # 269-1507		02-25-2016 S.S	CHORN C.PETERS	B Dwg of	Veterans Affairs

5

6 | 7

